



# 3000W True Sine Wave DC-AC Inverter

# TS-3000 series



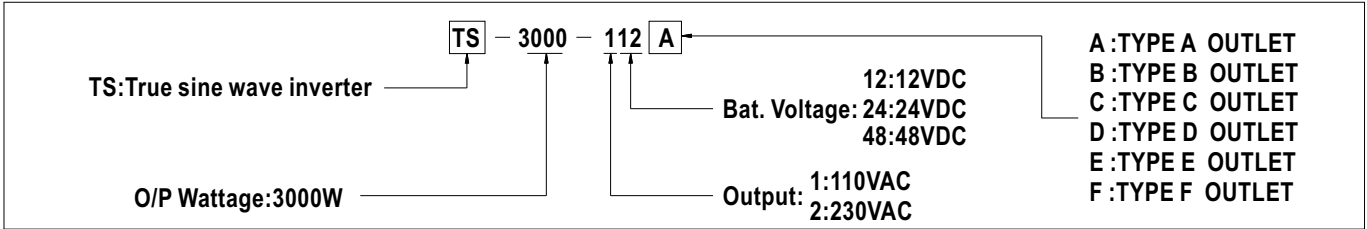
### ■ Features :

- True sine wave output (THD<3%)
- High surge power up to 6000W
- High efficiency up to 92%
- Power ON-OFF switch
- Standby saving mode can be selectable
- Front panel indicator for operation status
- Thermostatically controlled cooling fan
- Protections: Bat. low alarm / Bat. low shutdown / Over voltage / Over temp. / Output short / Input polarity reverse / Overload / AC circuit breaker
- Application : Home appliance, power tools, office and portable equipment, vehicle and yacht ...etc.
- Optional monitoring software and connection cable (MW order No.: DS-TN-1500)
- 3 years warranty



### SPECIFICATION

MODEL	TS-3000-112	TS-3000-124	TS-3000-148	TS-3000-212	TS-3000-224	TS-3000-248			
OUTPUT	RATED POWER (Typ.)						3000W		
	MAXIMUM OUTPUT POWER (Typ.)						3450W for 180 sec. / 4500W for 10 sec. / surge power 6000W for 30 cycles		
	AC VOLTAGE			Factory setting set at 110VAC			Factory setting set at 230VAC		
				100 / 110 / 115 / 120VAC selectable by setting button S.W			200 / 220 / 230 / 240VAC selectable by setting button S.W		
	FREQUENCY						60±0.1Hz 50/60Hz selectable by setting button S.W		
	WAVEFORM						50±0.1Hz 50/60Hz selectable by setting button S.W		
	AC REGULATION (Typ.)						±3%		
	SAVING MODE (Typ.)						Load ≤ 5W will be changed to standby mode		
FRONT PANEL INDICATOR						Battery voltage level, output load level, saving mode, fault and operation status			
INPUT	BAT. VOLTAGE		12V	24V	48V	12V	24V	48V	
	VOLTAGE RANGE (Typ.)		Note.3,6	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC	10.5 ~ 15VDC	21 ~ 30VDC	42 ~ 60VDC
	DC CURRENT (Typ.)		Note.4	300A	150A	75A	300A	150A	75A
	NO LOAD DISSIPATION (Typ.)						≤ 10W @ standby saving mode		
	OFF MODE CURRENT DRAW (Typ.)						≤ 1mA		
	EFFICIENCY (Typ.)		Note.1	88%	90%	91%	89%	91%	92%
	BATTERY TYPES						Open & sealed lead acid battery		
BATTERY INPUT PROTECTION	FUSE		40A*12	40A*6	20A*6	40A*12	40A*6	20A*6	
	BAT. LOW ALARM		Note.6	11.3V	22.5V	45V	11.3V	22.5V	45V
	BAT. LOW SHUTDOWN		Note.6	10.5V	21V	42V	10.5V	21V	42V
	REVERSE POLARITY						By internal fuse open		
OUTPUT PROTECTION	OVER TEMPERATURE		90°C±5°C	85°C±5°C	85°C±5°C	80°C±5°C	75°C±5°C	75°C±5°C	
							Protection type : Shut down o/p voltage, re-power on to recover		
	OUTPUT SHORT						Protection type : Shut down o/p voltage, re-power on to recover		
	OVER LOAD (Typ.)						105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.		
							Protection type : Shut down o/p voltage, re-power on to recover		
CIRCUIT BREAKER						AC output receptacle:15A			
GFCI PROTECTION						Optional (Only type F)   None			
ENVIRONMENT	WORKING TEMP.		Note.2	0 ~ +40°C @ 100% load ; 60°C @ 50% load					
	WORKING HUMIDITY						20% ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY						-30 ~ +70°C / -22 ~ +158°F, 10 ~ 95% RH		
	VIBRATION						10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes		
SAFETY & EMC	SAFETY STANDARDS						UL458 (only for "GFCI" receptacle-Type F)   None		
	LVD						None   EN60950-1		
	WITHSTAND VOLTAGE						Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC		
	ISOLATION RESISTANCE						Bat I/P - AC O/P, Bat I/P - FG, AC O/P - FG: 100M ohms / 500VDC / 25°C / 70% RH		
	EMI CONDUCTION&RADIATION				Compliance to FCC class A		Compliance to EN55022 class A, 72/ 245/ CEE, 95/ 54/ CE, E-Mark		
	EMS IMMUNITY				None		Compliance to EN61000-4-2,3,4,5,6,8,11 ENV50204		
OTHERS	CONTROL WIRING						RJ11 -RS232 (Option)		
	DIMENSION						466.8*283.5*100mm (L*W*H)		
	PACKING						12.9Kg; 1pcs/14Kg/1.98CUFT		
NOTE	1.Efficiency is tested by 2100W, linear load at 13V, 26V, 52V input voltage. 2.Output derating capacity referenced by curve 1. 3.Output derating capacity referenced by curve 2. 4.DC current is tested by 3000W, linear load at 12V, 24V, 48V input voltage. 5.All parameters not specified above are measured at rated load, 25°C of ambient temperature. 6.The tolerance of each voltage value by models is:112/212→±0.5V;124/224→±1V;148/248→±2V								

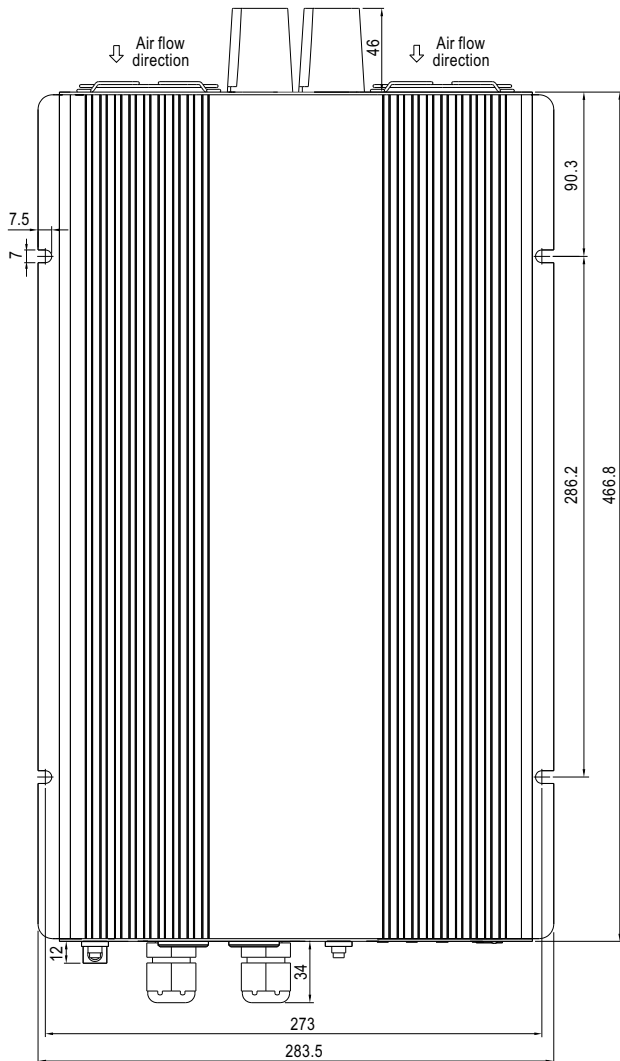
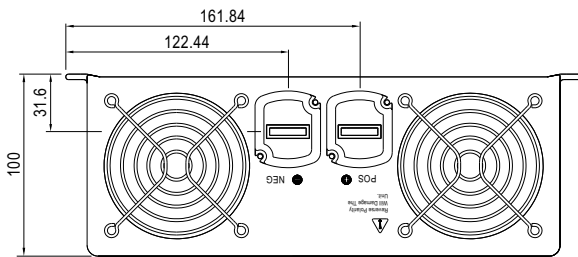


### AC Output Receptacle (optional)

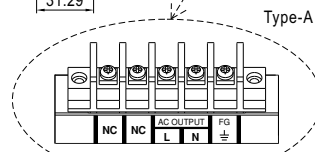
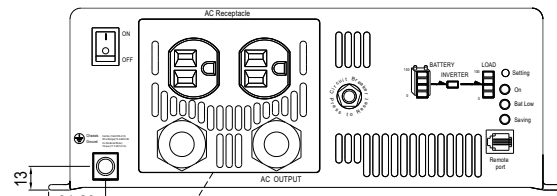
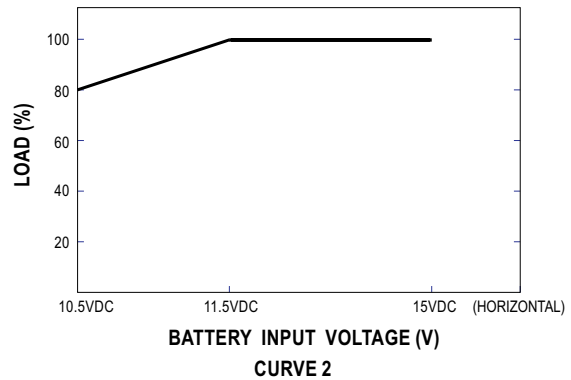
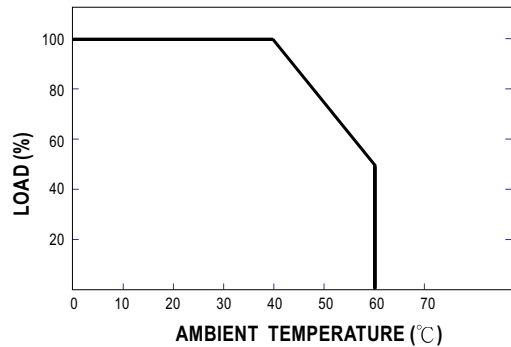
Receptacle type	TYPE-A	TYPE-B	TYPE-C	TYPE-D	TYPE-E	TYPE-F
Country	USA	EUROPE	AUSTRALIA	U.K	JAPAN	GFCI
Certificate						

### Mechanical Specification

Unit:mm



### Derating Curve



Note: When the load current is >15A, must use output terminal connection which can be found inside the AC output panel of the inverter.

